

Inspector: Persanyi, Andrea
Inspection Date: 10/29/2022

Structure Number: 4305078
Facility Carried: COUNTY LINE RD

Bridge Inspection Report

rating factor (RF) method using MS18
loading.

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| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|-------------|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 12-Reinforced Concrete Deck | 3 - Mod. | 9161 | sq. ft. | 7561 | 500 | 1100 | 0 |
| CS2- Transverse cracks. CS3-Mottled areas with stalactites, delams, spalls. A few small full depth repairs. Timber sub-decked over traffic. | | | | | | | |
| 805-Wearing Surface - Monolithic Concrete | | 7953 | sq. ft. | 6343 | 1500 | 60 | 50 |
| CS2- Cracks. CS3- Wide cracking, shallow spalls, a few delams. CS4- Small asphalt patches throughout. | | | | | | | |
| 107-Steel Open Girder/Beam | 3 - Mod. | 1156 | ft. | 1076 | 80 | 0 | 0 |
| CS2- Rust initiated at some beam ends. | | | | | | | |
| 515-Steel Protective Coating | | 10548 | sq. ft. | 0 | 10098 | 450 | 0 |
| CS2- Chalking. Blistering paint. CS3- Rust. | | | | | | | |
| 205-Reinforced Concrete Column | 3 - Mod. | 9 | each | 7 | 1 | 1 | 0 |
| CS2- P1C3=4 sf delam at top. CS3- P1C2=20 sf delam with leaching cracks. | | | | | | | |
| 215-Reinforced Concrete Abutment | 3 - Mod. | 62 | ft. | 42 | 10 | 5 | 5 |
| CS2- Leaching cracks with efflorescence. Rust stains. CS3- 3 sf spall in forward bay 2. Spall to rear-left cheekwall. A few delams. CS4- 15 sf by 9" deep spall with 360° rebar exposure with rusting section loss in rear bay 3. | | | | | | | |
| 234-Reinforced Concrete Pier Cap | 3 - Mod. | 99 | ft. | 89 | 10 | 0 | 0 |
| CS2- Minor delams. CS3- 1 sf spall in P3 cap. | | | | | | | |
| 305-Assembly Joint without Seal | 3 - Mod. | 56 | ft. | 0 | 0 | 56 | 0 |
| CS3- Rusting section loss. Collision damage to rear riser bar. Full width rough asphalt patch along FWD (north) and SB rear exjt header. Gouges to forward riser bar. Forward deck armor slightly lower than approach armor. Both joints closed at 45 degrees. 1' riser bar missing at rear NB. | | | | | | | |

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| 311-Movable Bearing | 3 - Mod. | 16 | each | 0 | 10 | 6 | 0 |
| CS2- Stacked shim plates under forward rockers. CS3- Heavy rusting with some pack rust to rockers at both abutments. | | | | | | | |
| 313-Fixed Bearing | 3 - Mod. | 4 | each | 0 | 4 | 0 | 0 |
| CS2- Surface rust. | | | | | | | |
| 321-Reinforced Concrete Approach Slab | 3 - Mod. | 1400 | sq. ft. | 0 | 1311 | 56 | 33 |
| CS2- Bounce onto bridge at rear. Deck is 1" higher than rear slab. Slab is 1/2" higher than deck at forward. Scaling at rear. CS3- Wide crack at rear. CS4- Asphalt patches & spalls in forward exjt header. | | | | | | | |
| 331-Reinforced Concrete Bridge Railing | 3 - Mod. | 604 | ft. | 555 | 35 | 14 | 0 |
| CS2- A few cracks, delams CS3- Spalls. Failed patches with exposed wire mesh to both rails. | | | | | | | |
| 815-Drainage | 3 - Mod. | 12 | each | 9 | 3 | 0 | 0 |
| CS2- Partially plugged scuppers. Debris/dirt in bulb angle. Concrete debris in both berms. | | | | | | | |
| 830-Abutment Backwall | 3 - Mod. | 62 | ft. | 36 | 10 | 16 | 0 |
| CS2- Leaching cracks, rust stains, delams. CS3- spalls with exposed rebar as deep as 4" at rear and one at forward. | | | | | | | |

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ODOT District: District 12

LAK-00090-2920_(4305078)

Date Built: 07/01/1959

Major Maint: 01 - State Highway Agency

Facility Carried: COUNTY LINE RD

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: IR 90

Traffic Under: 1 - Highway, with or w/out pedestrian

Insp. 01 - State Highway Agency

FIPS Code: 46494 - MADISON TWP (LAK county)

Location: DISTRICT 12

6.5 MI E GRAND RIVER

Insp A:

Insp B:

Inspector

Persanyi,Andrea

Inspection Date 10/29/2022

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Curbs/Sidewalk (LF)

Leaching cracks. Shallow spalls.

Approach

Approach Wearing Surface (EA)

Many cracks, most sealed. Areas of asphalt break up. Asphalt rutting to both.

Approach Embankment (EA)

Settlement as great as 2.5" of both forward approach rails.

Approach Guardrail (EA)

Minor collision damage to forward-left. Post rot. Note: both forward guardrails are 22" high.

Signs (EA)

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Rusting section loss to some endframes.

Fatigue (LF)

Welded cover plates at piers (rusty welds).

Substructure

Wingwalls (EA)

Spalled / crumbling concrete at forward-right.

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Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical